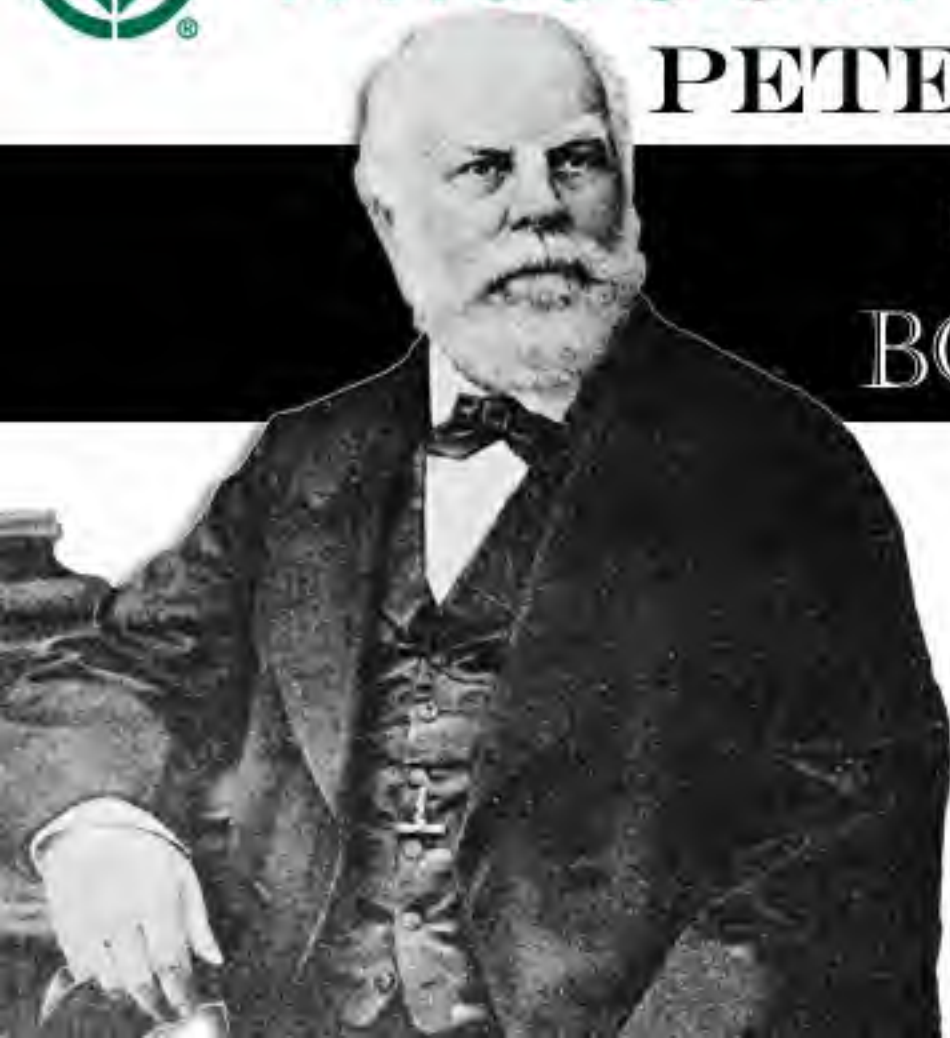


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ering.

Dimensions.—Length, 0.20 of an inch; width, 0.18.

The *Elaeacrinus Kirkwoodensis* is nearly allied to *E.* (*Pentremites*) *melo*, from which it is distinguished by its much smaller size and less deeply excavated base. It also occupies a higher geological position.

Occurs in the St. Louis Limestone (Carboniferous) on the Pacific railroad near Kirkwood, St. Louis county, Missouri.

8

Eugenia

aphyllus

hexandrus

undulatus

vaginis . setacea macrocarpa

(= *2. patens*)

170-175

13
J. Drummondii E. Mey
in Fedd. Flor. Ross. IV. 235
arcticus Hook f. & A. DC. Arn

J. compressus HBK

B. Haenkei E. Meyer

Ad. Haenke
fide Hook f. & A. DC. Arn

II. 189

J. Haenkei Meyer Jun.

Dr. Kunth addresses these groups
to J. Balbous

Her 563



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1606

cumstances prevented me from obtaining more crystals, which are now deposited in the collection of the Smithsonian Institute; a few others are also in the hands of members of the party. We were travelling at the time by forced night marches with nearly worn out animals, seeking to gain a spring of water in a distant range of mountains. This desert was then entirely unexplored. I have but little doubt that more interesting materials are to be found at the same point.

The mountains of the former Territory of Utah promise a rich yield to the mineralogist. We know already of gold and silver ores in the east, west and south part of that district; of copper and lead ores in the south, and I have discovered the latter also in the centre of it; of specular iron ores and native sulphur in the Rocky Mountains and near Little Salt Lake; of rock salt in the mountains south-east of Utah Lake; of native alum near Salt Lake; of various other salts in the deserts; and of silicates, composing the granites, porphyries, diorites, trachytes, and lavas, nearly over the whole area.

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Imms Drummondii

Jan 4 1866

California No 3

Bolander mis
1865

2337. Calif. State Survey is the same, Sierra Nevada Dr Hillebrand

Capsule shorter than

sepals, rarely equals them.

sepals exterior castanea

medio viridia & herbacea

margine hyaline

interior fusca

indistincte nervosa

exterior 5-7

interior 3 striate



Crossbars mostly
more indistinct or none

about 10-12 ribs visible



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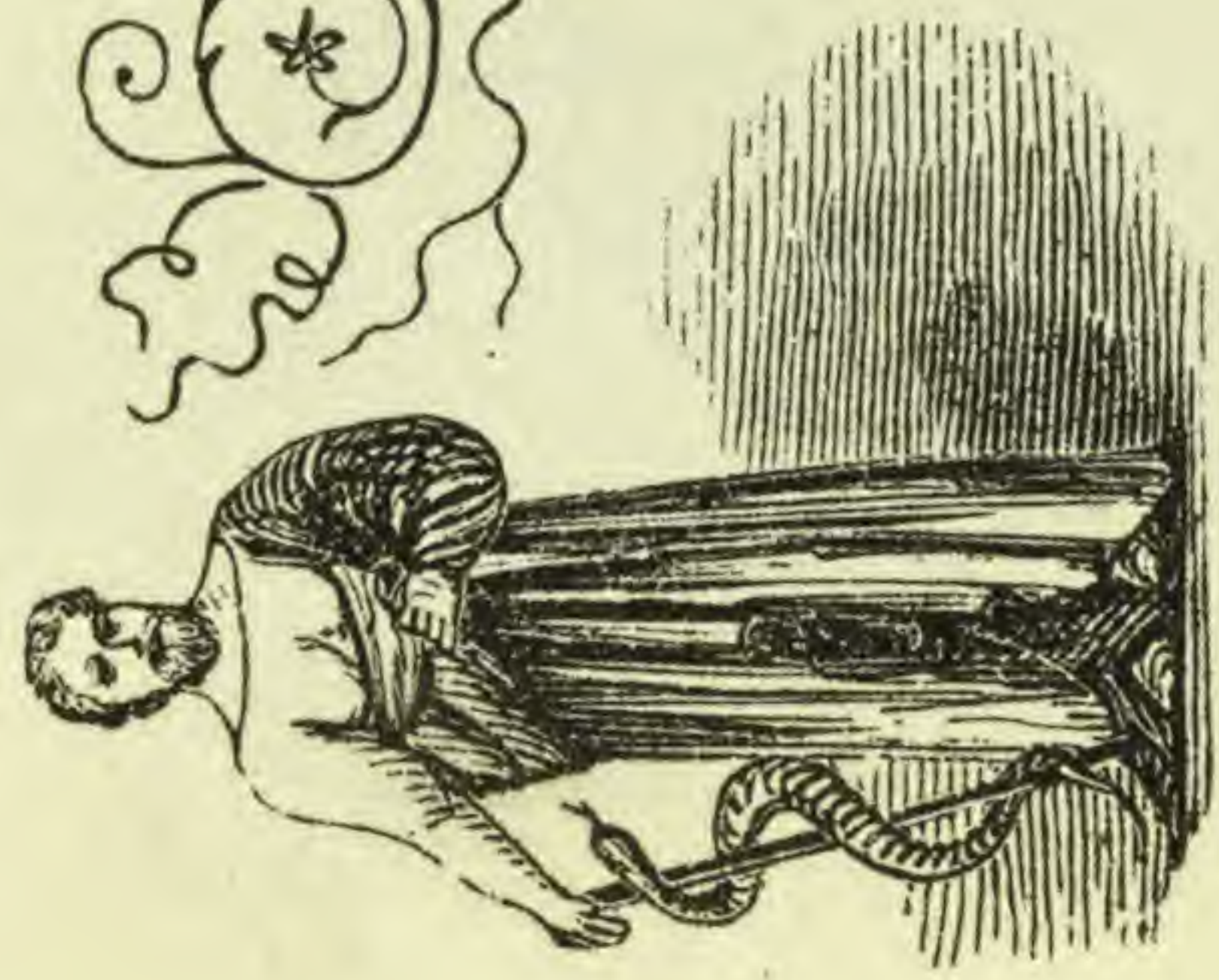
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J. Hummoldtii

Jan 4 1866

California No 3

Bolander Nov 1865

Section of stem



lowest & middle
full of pith

upper part
hollow



0 1 2 3 4 5 6 7 8 9 10

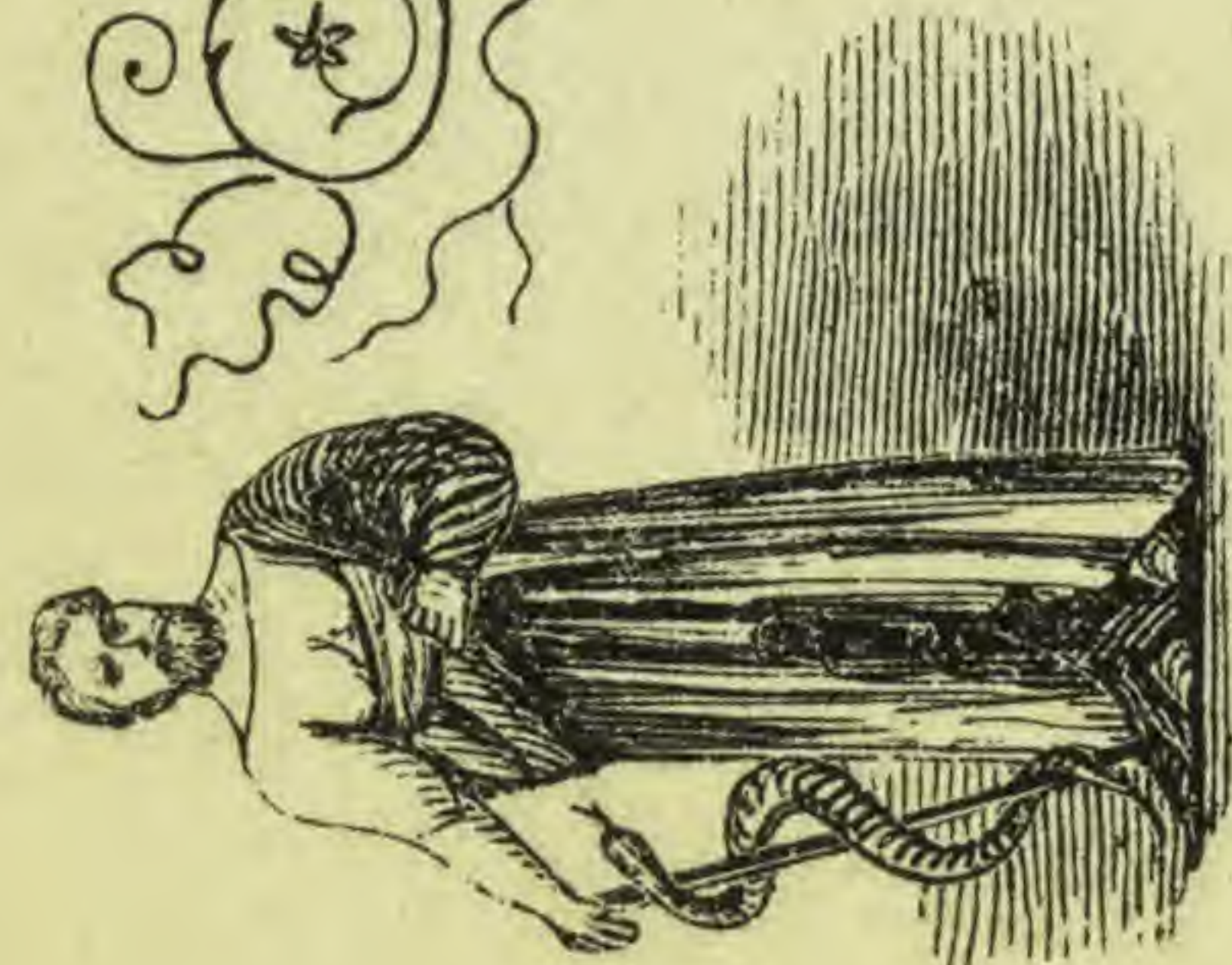
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Quercus dumetorum

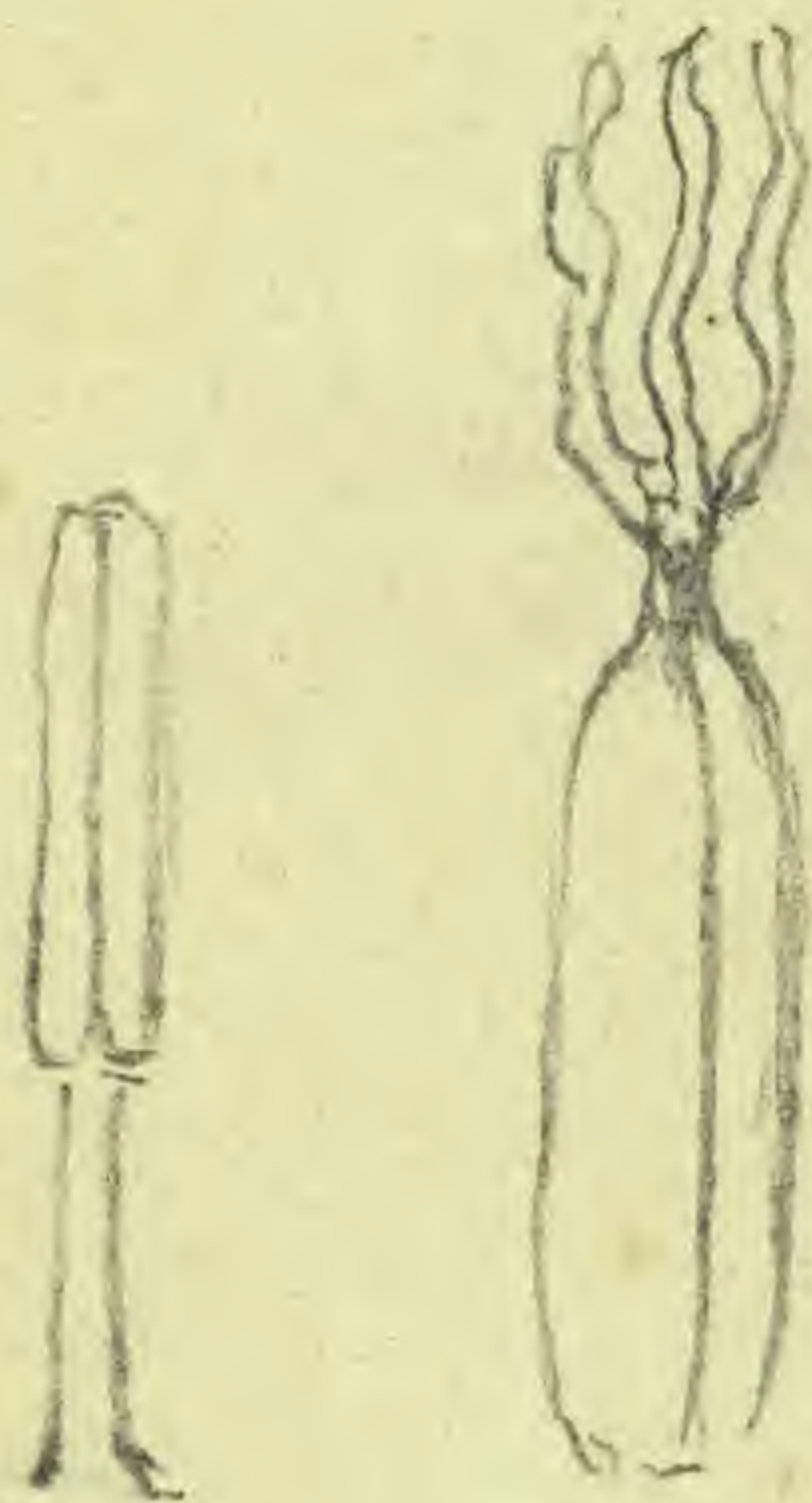
Jan 29

1866

is now *Q. arctica*

49°

Cascade Mts. D. Lyall



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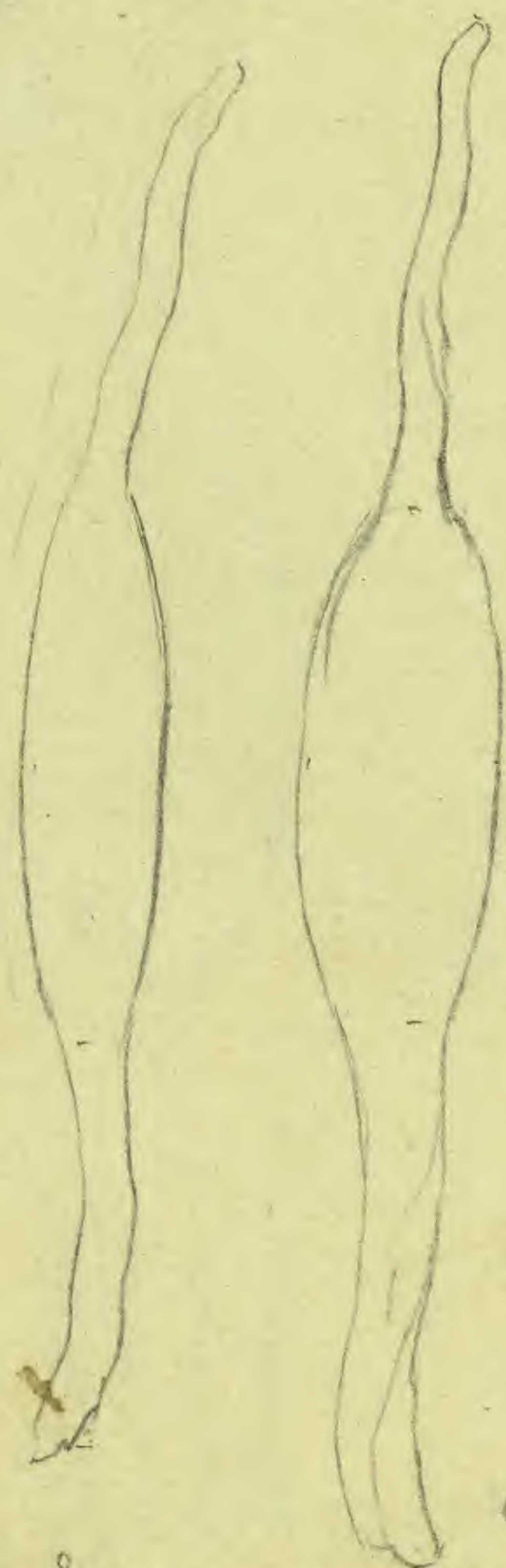
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1383 Calif. *Demissa*
 State Survey
 Common in.

Mount Shasta 8400'
 Sept 13. 1862

Febr 25 1866

Capsipapula
exserta



Seed very unripe



Stamina media sepala aequalia

sepala exteriora 7 nervis minoribus
interiora breviora vix nervis
indistincte 3 nervis, medio
viridioribus



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1383 Calif. State Survey

Febr 26 1866

mont Shasta

only seed found in an old capsule
(of last year?) apparently one tail
broken off.



10-11 striae
or ribs visible

L. Drummondii

var. *hermii*

biflor - vagina aristata



even striae distinct

cm

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J. Drummondii

Aug 2 1867

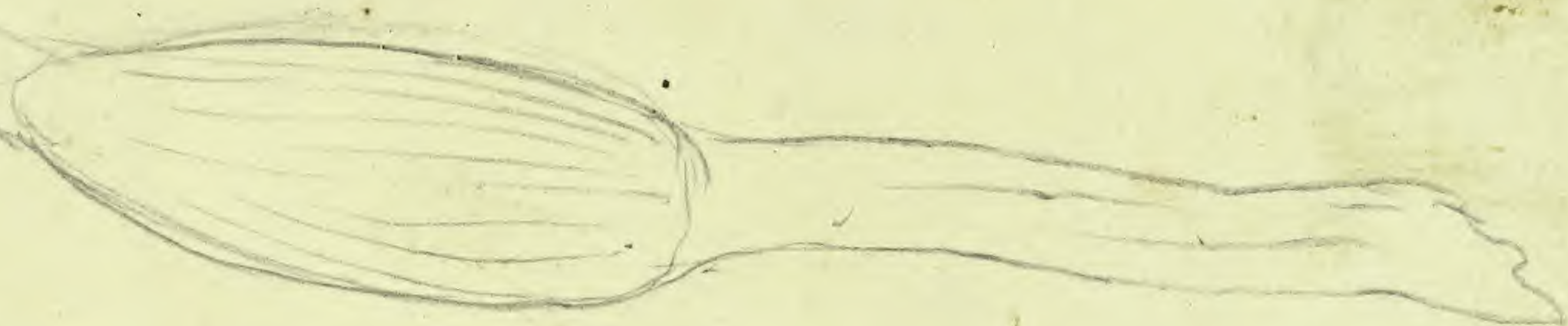
9-10,000 feet high

Boleander leaf

Sept 1866

Herb. No. 16

seed x60



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Juncus Haenkei E. Meyer syn. *Juncus* p. 10
(1822).
= *Juncus compressus* Hook. β . *Haenkei*
E. Meyer in *Rel. Haenk.* I. 141
Nootka Sound, Haenke Leg. (1827)

J. compressus β *Haenkei* E. Meyer = herb & *Rel Haenk.*
is, fide Hook *Fl. Bor. Am.* IV. 189, = *J. arcticus*. (1840)

J. arcticus Hook *Bor. Am.* is = *J. Drummondii* E. Meyer
= *J. arcticus* Hook *Bor. Am.* IV. 235
(1853)

J. compressus β *Haenkei* E. Meyer is (fide Kunth *Er.* IV. 317)
= *J. pallidus* (1841)

J. Haenkei Meyer = *complanatus* Schult (= *compressus* Hook)
Stand. nom.
1841



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Junonia Drummondii E. Meyer in Ledeb. Fl. Ross
IV. p. 235 (1853)

Syn. *J. arctica* Hook H. Bor. A. 4. 189. excl. synonym

J. compressus γ. *subtriflorus* E. Meyer in
Linnaea III. 368

Linnaea III. 368 (1828) Planta Chamissoana: Sauv.
Junonia compressus Hook Chile and E. Meyer

β. *anthela subsimplioides* = *J. Haenkei* Meyer

γ. *subtriflorus* - Unalakleet

This last was named by Meyer in 1853 *J. Drummondii*

The ~~former~~ seems to be left with
J. compressus. - But on account of its northern
habitat it may belong to *Drummondii*, to which

then the name of *J. Haenkei* ^{Meyer} (1822)
would properly belong - or to *J.*
Bullianus, but scarcely to the
tropical or subtropical *J. compressus*.

Compare original in Herb. Haenke.

In Linnaea l.c. Meyer says:

Var β. certo certius profferendum, regue
ad *J. bullianus*, quoniam [ad *J. compressus*]
ob patriam septentrionalem conjugem
midebat cl. De la Harpe.



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Junonia Drummondii

Hb. Phila.

Gray.

Engelm.

Rocky Mts

Drummond

Drummond

Colorado

Hall 563

Hall 563

Hall 563

Rocky Mts. from
Fort Collins 49° 6500' alt

Lyall 1861

Cascade Mountains 49°

Lyall 1859

(Lyell)

California

Hillebrand



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4

I Genuini

3. *Arctici*

170-204



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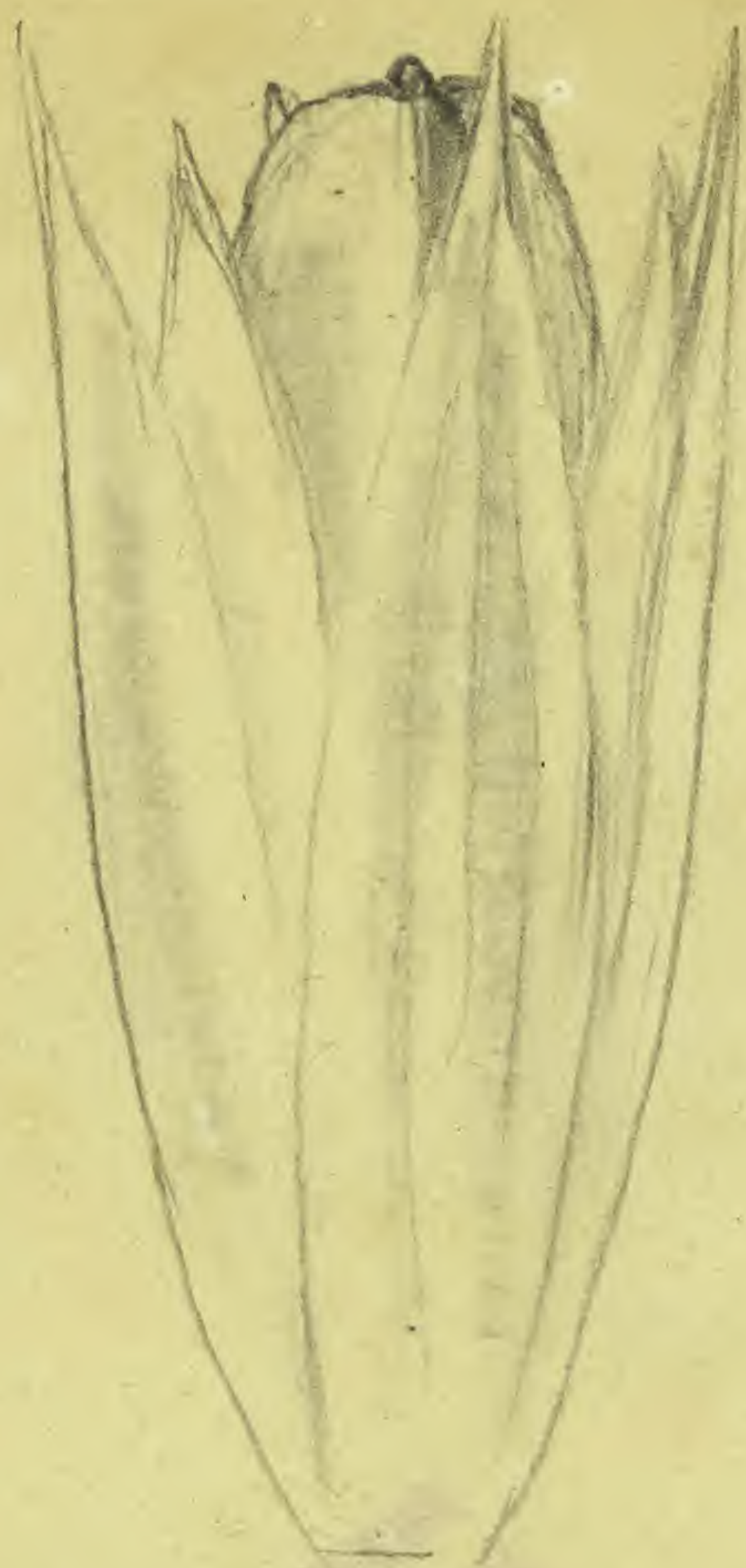
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Juncus "arcticus"

Aug 19th 1865

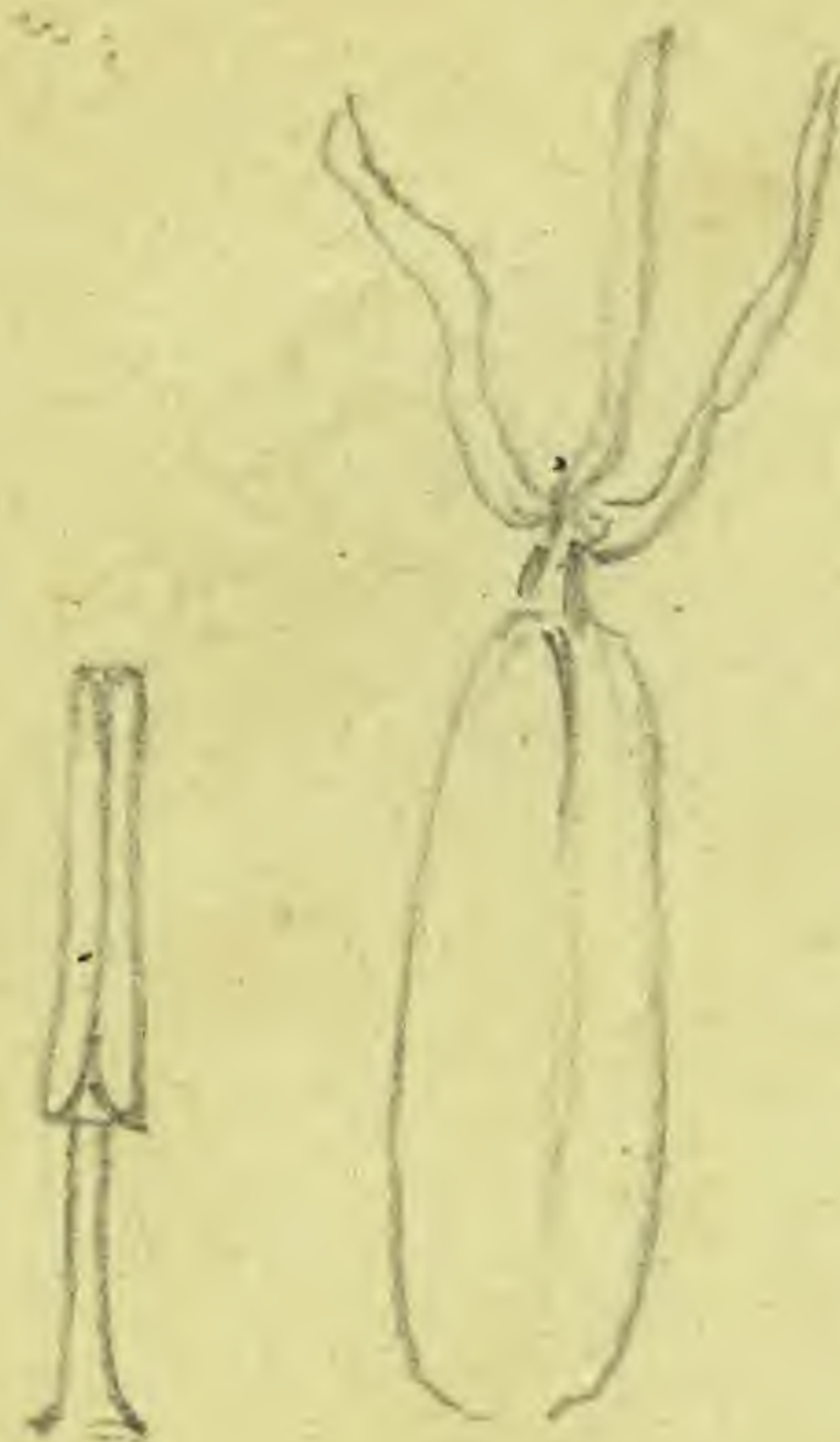
Colorado E. Hill. 563

Seed
x 60

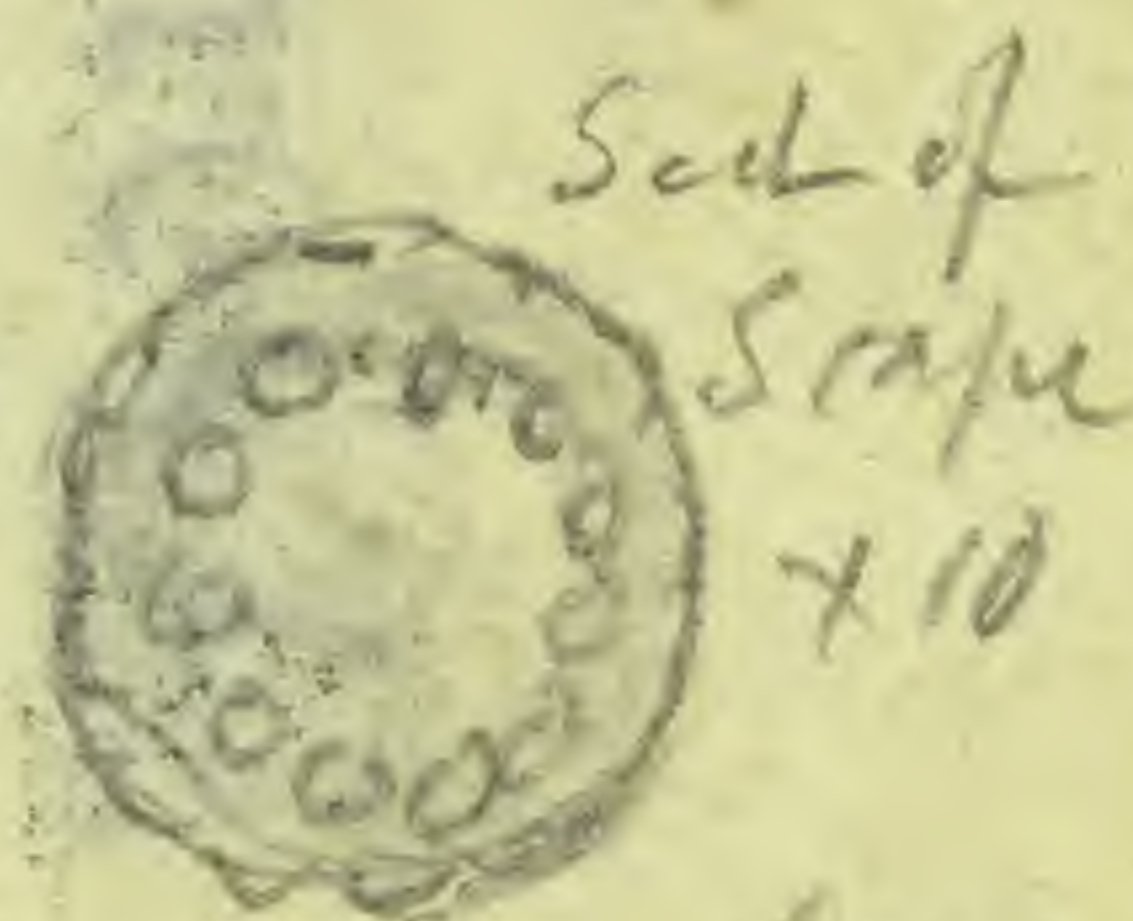


x 10

Capsule persistent
retuse, with a small knob
sometimes longer than calyx



anther filaments
longer



Seed of
Scape
x 10

sepals acute
inner ones a little shorter
than outer ones: capsule scarcely shorter than
sepals

9-10 ribs
visible
cross bars
indistinct
cross striae
light



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" *Immunis arctica* "

" Rocky Mountains "

Aug 20 1865

Drummond

ex Hb Gray

x 60

very young
seed



x 10



very young fruit
retuse



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J. arctium

Jan 27 1866

• *S. lche* - Hb Gray

litter seed, though not
fully ripe,
shriveled.



another fruit from the same
specimens



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Juncus

Jan 29 1866

sub nom "*J. arcticus* ? "

Cascade Mountains, Dr Lyall 1860



7-8 inches high

1-flowered

leaves 3-4 inches

sepals external

sub 7 nerves

internal

1

8. reddish 3 nerves



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